

Title (en)

LENS BODY, LIGHT SOURCE UNIT AND ILLUMINATING DEVICE

Title (de)

LINSENKÖRPER, LICHTQUEELLEINHEIT UND BELEUCHTUNGSVORRICHTUNG

Title (fr)

CORPS DE LENTILLE, UNITÉ DE SOURCE DE LUMIÈRE ET DISPOSITIF D'ÉCLAIRAGE

Publication

**EP 2270568 A1 20110105 (EN)**

Application

**EP 09735129 A 20090227**

Priority

- JP 2009053743 W 20090227
- JP 2008116080 A 20080425

Abstract (en)

A lens body, a light source unit and a lighting system, which can reduce the cost by using a common lens, are provided. Substantially cylindrical supporting units 210, 220 are formed at both sides of a lens 200. The supporting units 210, 220 are to adjust the separation distance between the lens 200 and the surface of a substrate depending on the height dimension of a light emitting diode mounted on the substrate from the substrate face when the lens body 2 is fixed to the substrate. A cylindrical convex part 202 is formed at a part of the tip face of the supporting unit 210 in a concentric fashion relative to the supporting unit 210, and a cylindrical positioning unit 201 is formed at a part of the tip face of the convex part 202 in a concentric fashion. The positioning unit 201 functions as a member for positioning when the substrate and the lens body 2 are fixed to each other.

IPC 8 full level

**G02B 7/02** (2006.01); **F21S 2/00** (2016.01); **F21S 8/04** (2006.01); **F21V 5/00** (2015.01); **G02B 3/00** (2006.01); **H01L 33/00** (2010.01); **H01L 33/48** (2010.01); **H01L 33/58** (2010.01); **H01L 33/60** (2010.01); **F21Y 101/02** (2006.01)

CPC (source: EP US)

**F21S 4/20** (2016.01 - EP US); **F21V 5/04** (2013.01 - EP US); **F21V 17/005** (2013.01 - EP US); **F21V 17/02** (2013.01 - EP US); **G02B 19/0028** (2013.01 - EP US); **G02B 19/0066** (2013.01 - EP US); **F21V 17/06** (2013.01 - EP US); **F21Y 2115/10** (2016.07 - EP US); **H01L 33/58** (2013.01 - EP US)

Cited by

EP3940290A4; EP3477190A1; EP3916298A4; EP4279971A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

**EP 2270568 A1 20110105**; **EP 2270568 A4 20120314**; CN 102016676 A 20110413; CN 102016676 B 20130417; JP 2009265423 A 20091112; JP 4879218 B2 20120222; US 2011032707 A1 20110210; US 8475003 B2 20130702; WO 2009130944 A1 20091029

DOCDB simple family (application)

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